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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **08126308**(51) Intl. Cl.: **B09B 3/00 C04B 18/10**(22) Application date: **24.04.96**

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states:(71) Applicant: **NIPPON STEEL CORP**(72) Inventor: **MAEDA KAZUO  
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**(54) METHOD OF  
REFORMING COAL ASH  
AND METHOD OF USING  
REFORMED COOL ASH**

(57) Abstract:

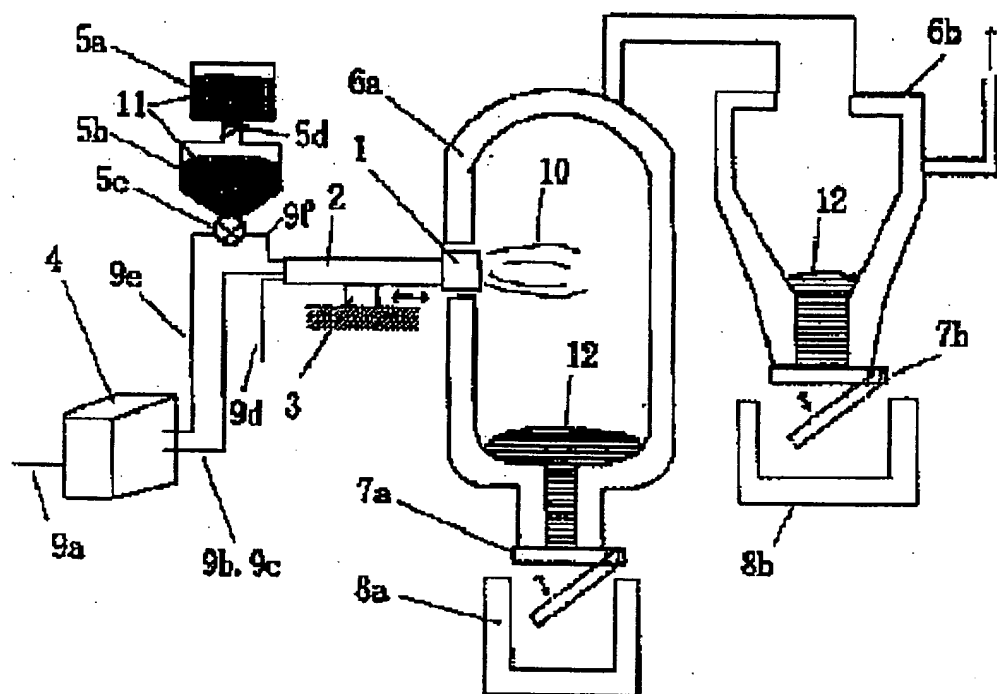
**PROBLEM TO BE SOLVED:** To burn and remove carbon contained in coal ash and at the same time to melt the carbon ash to make its granular shape a spherical shape by melt-spraying the coal ash, to improve its fluidity when it is used as a concrete admixture substituting for sand to efficiently use all coal ash generated and also to save resources.

**SOLUTION:** A thermal spraying device constituted of a thermal spraying burner, a lance, a utility control panel and a powder feeder and a furnace body for providing a space for performing thermal spraying are used. The thermal spraying device is installed in an opening of the furnace body so that flames formed by the thermal spraying burner 1 may be blown into the furnace body. Coal ash 2 is sprayed from the thermal spraying burner 1 together with carrier gas so

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that they may be passed through a thermal spraying flame 10.

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